IPOL LUBRICANTS

Product Data

IPOL ENHANCO QUENCH H - 302

Description:

IPOL Enhanco Quench H - 302 is a **high viscosity hot** Quenching Oil designed for the fine distortion control of the finished components. The product consists of highly refined base oil fortified with performance chemicals for consistent long lasting performance. It is recommended to use the oil at higher temperature for better dimensional control.

Product Features :

- Based on selected refined virgin base oil having excellent antioxidant characteristics.
- A high and uniform rate of cooling during initial quenching phase.
- Faster speed ensures proper and uniform hardness
- Slower in the convection phase to avoid the distortion problems.
- Fortified with antioxidant additive to ensure uniform and consistent performance of oil.
- Lesser smoking and with high flash point reduces the risk of fire hazard.
- Lower viscosity than the conventional hot oils.
- Consistent bright finish of the components.

Typical Results:

Characteristic	Test Method	Results
Color	ASTM D 1500	Light Brownish Yellow
Specific Gravity @ 30°C	IS 1448 P-32	0.875
Viscosity at 40°C, cSt	IS 1448 P-25	178
Viscosity at 100°C cSt	IS 1448 P-25	18
Flash Point	IS 1448 P-69	> 265°C
Fire Point	-	> 325°C
Moisture content	-	< 0.1 %
Sludge	-	Nil
Operating Temp.	-	100°C – 160°C

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Precautions:

- Use of Nitrogen Blanket would enhance the life for this hot oil.
- Can be used in Seal Quench Furnace as well as Open Tank. However, life would be longer in SQF.
- Follow the practice of Preventive Maintenance of the Quenchants.
- Avoid water/moisture contamination.
- Use of compressed air for agitation should be strictly avoided as it increases the oxidation rate of the oil.
- Heat exchanger should be in operation.
- Avoid Cu and Copper alloys in heat exchanger. Cu acts as a catalyst for oxidation of the oil.
- Maintain proper atmosphere in the furnace.
- Maintain proper level of the oil.

General Comments:

Heat Treatment is a complex process of an art and science. We advise you to take our assistance for the proper system configuration if you are installing the new tank or else modifications if required for the old tank can be suggested by us.

The properties indicated are typical and may change slightly without affecting the performance of the product.

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